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TITLE OF INVENTION

Fire Resistant Fabric Composite, Process for Fire-blocking a Mattress and Mattress Set, and a Mattress and Mattress Set Fire-blocked Thereby

ABSTRACT OF THE DISCLOSURE

This invention relates to a fabric composite for use in fire-blocking a mattress, a fire-blocked mattress set, and a process for fire-blocking mattresses; the fabric composite comprising, in order, (a) sacrificial outer ticking, (b) sacrificial cushioning material, and (c) fire-blocking fabric, the fire-blocking fabric being a single layer of nonwoven fabric comprising at least 0.5 ounces per square yard (17 grams per square meter) of a cellulose fiber that retains at least 10 percent of its fiber weight when heated in air to 700 C at a rate of 20 degrees C per minute, and at least 0.5 ounces per square yard (17 grams per square meter) of a heat-resistant fiber. Mattress sets fire-blocked with this fabric composite have a peak heat release rate of less than 150 kilowatts within 30 minutes, preferably less that 150 kilowatts within 60 minutes, and a total heat release of less than 25 megajoules within 10 minutes when tested according to Technical Bulletin 603 of the State of California.